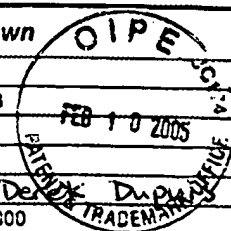


US Form PTO SB 33: Substitute for form 1449A-PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	FRANK G. ROAT De
Sheet	1	of	12	Attorney Docket Number	09140-0025-00000




U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DLD		US 2001/0027159 A1	Oct. 4, 2001	Kaneyoshi	
		US 2002/0033330 A1	Mar. 21, 2002	Demaray et al.	
		US 2002/0106297 A1	Aug. 8, 2002	Ueno et al.	
		US 2002/0134671 A1	Jul. 17, 2003	Demaray et al.	
		US 2002/0170821 A1	Nov. 21, 2002	Sandlin et al.	
		US 2003/0019326 A1	Jan. 30, 2003	Han et al.	
		US 2003/0022487 A1	Jan. 30, 2003	Yoon et al.	
		US 2003/0042131 A1	Mar. 6, 2003	Johnson	
		US 2003/0077914 A1	Apr. 24, 2003	Le et al.	
		US 2003/0079838 A1	May 1, 2003	Brcka	
		US 2003/0097858 A1	May 29, 2003	Strohhofer et al.	
		US 2003/0141186 A1	Jul. 31, 2003	Wang et al.	
		US 2003/0173207 A1	Sep. 18, 2003	Zhang et al.	
		US 2003/0173208 A1	Sep. 18, 2003	Pan et al.	
		US 2003/0174391 A1	Sep. 18, 2003	Pan et al.	
		US 2003/0175142 A1	Sep. 18, 2003	Milonopoulou et al.	
		US 2003/0175142 A1	Sep. 18, 2003	Milonopoulou et al.	
		US 2004/0259305 A1	Dec. 23, 2004	Demaray et al.	
		US 2005/0000794 A1	Jan. 6, 2006	Demaray et al.	
		US 2005/0006768 A1	Jan. 13, 2005	Narasimhan et al.	
		US 3,616,403	Oct. 26, 1971	Collins et al.	
		US 3,850,604	Nov. 26, 1974	Klein	
		US 4,111,523	Sep. 5, 1978	Kaminow et al.	
		US 4,437,966	Mar. 7, 1961	Hope et al.	
		US 4,619,680	Oct. 28, 1986	Nourshargh et al.	
		US 4,710,940	Dec. 1, 1987	Sipes, Jr.	
		US 4,785,459	Nov. 15, 1988	Baer	
		US 4,915,810	Apr. 10, 1990	Kestigian et al.	
		US 4,978,437	Dec. 18, 1990	Wirz	
		US 5,085,904	Feb. 4, 1992	Deak et al.	
		US 5,107,538	Apr. 21, 1992	Benton et al.	

Examiner Signature	<i>[Signature]</i>	Date Considered	3/7/2005
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US Form PTO SB 38: Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10,650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	FRANK EBEL Derek Dupuis
Sheet	2	of	12	Attorney Docket Number	09140-0025-00000

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No.	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DLD		US 5,119,460	Jun. 2, 1992	Bruce et al.	
		US 5,174,876	Dec. 29, 1992	Buchal et al.	
		US 5,196,041	Mar. 23, 1993	Tumminelli et al.	
		US 5,200,029	Apr. 6, 1993	Bruce et al.	
		US 5,206,925	Apr. 27, 1993	Nakazawa et al.	
		US 5,225,288	Jul. 6, 1993	Beeson et al.	
		US 5,237,439	Aug. 17, 1993	Misono et al.	
		US 5,252,194	Oct. 12, 1993	Demaray et al.	
		US 5,287,427	Feb. 15, 1994	Atkins et al.	
		US 5,303,319	Apr. 12, 1994	Ford et al.	
		US 5,306,569	Apr. 26, 1994	Hiraki	
		US 5,355,089	Oct. 11, 1994	Treger	
		US 5,381,262	Jan. 10, 1995	Arima et al.	
		US 5,427,669	Jun. 27, 1995	Drummond	
		US 5,457,569	Oct. 10, 1995	Liou et al.	
		US 5,475,528	Dec. 12, 1995	LaBorde	
		US 5,483,613	Jan. 9, 1996	Bruce et al.	
		US 5,499,207	Mar. 12, 1996	Miki et al.	
		US 5,555,127	Sep. 10, 1996	Abdelkader et al.	
		US 5,563,979	Oct. 8, 1996	Bruce et al.	
		US 5,565,071	Oct. 15, 1996	Demaray et al.	
		US 5,591,520	Jan. 7, 1997	Migliorini et al.	
		US 5,603,816	Feb. 18, 1997	Demaray et al.	
		US 5,607,560	Mar. 4, 1997	Hirabayashi et al.	
		US 5,607,789	Mar. 4, 1997	Treger et al.	
		US 5,613,995	Mar. 25, 1997	Bhandarkar et al.	
		US 5,654,054	Aug. 5, 1997	Tropsha et al.	
		US 5,654,984	Aug. 5, 1997	Hershberger et al.	
		US 5,686,360	Nov. 11, 1997	Harvey, III et al.	
		US 5,693,956	Dec. 2, 1997	Shi et al.	
	US 5,718,813	Feb. 17, 1998	Drummond		

Examiner Signature		Date Considered	3/7/2005
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US Form PTO SB 08 Substitute for form 1449A PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10:650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	Patricia Derek L. Dupuis
Sheet	3	of	12	Attorney Docket Number	09140-0025-00000

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DW		US 5,719,976	Feb. 17, 1998	Henry et al.	
		US 5,731,661	Mar. 24, 1998	So et al.	
		US 5,755,938	May 26, 1998	Fukui et al.	
		US 5,757,126	May 26, 1998	Harvey, III et al.	
		US 5,762,768	Jun. 9, 1998	Goy et al.	
		US 5,771,562	Jun. 30, 1998	Harvey, III et al.	
		US 5,792,550	Aug. 11, 1998	Phillips et al.	
		US 5,811,177	Sep. 22, 1998	Shi et al.	
		US 5,830,330	Nov. 3, 1998	Lantsman	
		US 5,831,262	Nov. 3, 1998	Greywall et al.	
		US 5,841,931	Nov. 24, 1998	Foresi et al.	
		US 5,847,865	Dec. 8, 1998	Gopinath et al.	
		US 5,849,163	Dec. 15, 1998	Ichikawa et al.	
		US 5,853,830	Dec. 29, 1998	McCaulley et al.	
		US 5,855,744	Jan. 5, 1999	Halsey et al.	
		US 5,870,273	Feb. 9, 1999	Sogabe et al.	
		US 5,882,946	Mar. 16, 1999	Otani	
		US 5,900,057	May. 4, 1999	Buchal et al.	
		US 5,930,584	Jul. 27, 1999	Sun et al.	
		US 5,942,089	Aug. 24, 1999	Sproul et al.	
		US 5,948,215	Sep. 7, 1999	Lantsman	
		US 5,952,778	Sep. 14, 1999	Haskal et al.	
		US 5,961,682	Oct. 5, 1999	Lee et al.	
		US 5,966,491	Oct. 12, 1999	DiGiovanni	
		US 5,977,582	Nov. 2, 1999	Fleming et al.	
		US 6,001,224	Dec. 14, 1999	Drummond	
		US 6,004,660	Dec. 21, 1999	Topolski et al.	
		US 6,024,844	Feb. 15, 2000	Drummond et al.	
		US 6,046,081	Apr. 4, 2000	Kuo	
		US 6,051,114	Apr. 18, 2000	Yao et al.	
✓		US 6,051,296	Apr. 18, 2000	McCaulley et al.	
Examiner Signature				Date Considered	3/7/2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US Form PTO/SB/08 Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10,650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	Frank G. Font Derek L. Dupuis
Sheet	4	of	12	Attorney Docket Number	09140-0025-00000

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DLD		US 6,057,557	May 2, 2000	Ichikawa	
		US 6,058,233	May 2, 2000	Dragone	
		US 6,071,323	Jun. 6, 2000	Kawaguchi	
		US 6,077,642	Jun. 20, 2000	Ogata et al.	
		US 6,080,643	Jun. 27, 2000	Noguchi et al.	
		US 6,093,944	Jul. 25, 2000	VanDover	
		US 6,106,933	Aug. 22, 2000	Nagai et al.	
		US 6,146,225	Nov. 14, 2000	Sheats et al.	
		US 6,157,765	Dec. 5, 2000	Bruce et al.	
		US 6,162,709	Dec. 19, 2000	Raux et al.	
		US 6,165,566	Dec. 26, 2000	Tropsha	
		US 6,176,986 B1	Jan. 23, 2001	Watanabe et al.	
		US 6,197,167 B1	Mar. 6, 2001	Tanaka	
		US 6,198,217 B1	Mar. 6, 2001	Suzuki et al.	
		US 6,204,111 B1	Mar. 20, 2001	Uemoto et al.	
		US 6,210,544 B1	Apr. 3, 2001	Sasaki	
		US 6,214,660 B1	Apr. 10, 2001	Uemoto et al.	
		US 6,236,793 B1	May 22, 2001	Lawrence et al.	
		US 6,248,291 B1	Jun. 19, 2001	Nakagama et al.	
		US 6,248,640 B1	Jun. 19, 2001	Nam	
		US 6,261,917 B1	Jul. 17, 2001	Quek et al.	
		US 6,280,585 B1	Aug. 28, 2001	Obinata et al.	
		US 6,287,986 B1	Sep. 11, 2001	Mihara	
		US 6,290,822 B1	Sep. 18, 2001	Fleming et al.	
		US 6,300,215 B1	Oct. 9, 2001	Shin	
		US 6,302,939 B1	Oct. 16, 2001	Rabin et al.	
		US 6,344,419 B1	Feb. 5, 2002	Forster et al.	
		US 6,350,353 B2	Feb. 26, 2002	Gopalraja et al.	
		US 6,358,810 B1	Mar. 19, 2002	Dornfest et al.	
		US 6,365,319 B1	Apr. 2, 2002	Heath et al.	
✓		US 6,409,965 B1	Jun. 25, 2002	Nagate et al.	
Examiner Signature				Date Considered	3/7/2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IDS Form PTO/SB 08: Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	Francis Derek L. Pupuis
Sheet	5	of	12	Attorney Docket Number	09140-0025-00000

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No.	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DLD		US 6,413,382 B1	Jul. 2, 2002	Wang et al.	
		US 6,413,645 B1	Jul. 2, 2002	Graff et al.	
		US 6,416,598 B1	Jul. 9, 2002	Sircar	
		US 6,423,776 B1	Jul. 23, 2002	Akkapeddi et al.	
		US 6,433,380 B2	Aug. 13, 2002	Shin	
		US 6,444,750 B1	Sep. 3, 2002	Touhsaent	
		US 6,488,822 B1	Dec. 3, 2002	Moslehi	
		US 6,506,289 B1	Jan. 14, 2003	Demaray et al.	
		US 6,511,615 B1	Jan. 28, 2003	Dawes et al.	
		US 6,533,907 B1	Mar. 18, 2003	Demaray et al.	
		US 6,537,428 B1	Mar. 25, 2003	Xiong et al.	
		US 6,563,998 B1	May 13, 2003	Farah et al.	
		US 6,576,546 B2	Jun. 10, 2003	Gilbert et al.	
		US 6,602,338 B2	Aug. 5, 2003	Chen et al.	
		US 6,605,228 B1	Aug. 12, 2003	Kawaguchi et al.	
		US 6,615,614 B1	Sep. 9, 2003	Makikawa et al.	
		US 6,750,156 B2	Jun. 15, 2004	Le et al.	

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
DLD		EP 0 510 883 A2	10/28/1992	AT&T		Yes
DLD		EP 0 820 088 A2	01/21/1998	Applied Komatsu Technology, Inc.		Yes
		EP 0 867 985 B1	09/01/1998	Nederlandse Organisatie Voor Toegepast- Natuurwetenschappelijk Onderzoek Tno		
		EP 1 189 080 A2	03/20/2002	Agere Systems Optoelectronics Guardian Corporation		
		JP 2-054764 A2	02/23/1990	Leybold AG		Abstract

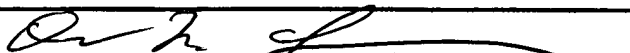
Examiner Signature		Date Considered	3/7/2005
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US Form PTO/SB/08: Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	FRANK G. FOST Derek Dupuis
Sheet	6	of	12	Attorney Docket Number	09140-0025-00000

FOREIGN PATENT DOCUMENTS						
DLD		JP 6-010127 A	01/18/1994	Ulvac Japan Ltd		Abstract
		JP 6-100333 A	12/04/1994	Kobe Steel Ltd.		Abstract
		WO 96/23085 A1	08/01/1996	Applied Komatsu Technology, Inc.		Yes
		WO 97/35044 A1	09/25/1997	Material Research Corporation		
		WO 00/21898 A1	04/01/2000	Samsung Electronics Co., Ltd.		
		WO 00/22742 A2	04/01/2000	Fiver Laboratories		
		WO 00/36665 A1	06/22/2000	Battelle Memorial Institute		
		WO 2004/021532 A1	03/11/2004	Symmorphix, Inc.		
✓		WO 2004/077519 A2	09/10/2004	Narasimhan et al.		✓

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		Translation ⁶
DLD		AFFINITO et al., "PML/oxide/PML Barrier Layer Performance Differences Arising from Use of UV or Electron Beam Polymerization of the PML Layers," <i>Thin Solid Films</i> Vol. 308-309, pp. 19-25 (1997)		Yes
		AFFINITO et al., "Polymer-Oxide Transparent Barrier Layers," Society of Vacuum Coaters, 39th Ann. Technical Conference Proceedings, May 5-10, 1996, Philadelphia, PA, pp. 392-397 (1996).		
		ALDER, T. et al., "High-Efficiency Fiber-to-Chip Coupling Using Low-Loss Tapered Single-Mode Fiber," <i>IEEE Photonics Technology Letters</i> , 12(8):1016-1018, (2000).		
		ALMEIDA, Vilson R. et al., "Nanotaper for compact mode conversion," <i>Optics Letters</i> , 28(15):1302-1304, (2003).		
		ASGHARI et al., "ASOC--A Manufacturing Integrated Optics Technology," Part of the SPIE Conference on Integrated Optics Devices III, vol. 3620, pp. 252-262 (Jan. 1999).		
		BARBIER et al., "Amplifying Four-Wavelength Combiner, Based on Erbium/Erterbium-Doped Waveguide Amplifiers and Integrated Splitters", <i>IEEE PHOTONICS TECHNOLOGY LETTERS</i> , Vol. 9, pp 315-317 (1997).		
		BARBIER, Denis, "Performances and potential applications of erbium doped planar waveguide amplifiers and lasers," <i>GeeO</i> , pp. 58-63 (date unknown).		
		BELKIND et al., "Using pulsed direct current power for reactive sputtering of Al ₂ O ₃ ," <i>J. Vac. Sci. Technol. A</i> 17(4), pp. 1934-40 (Jul. 1999).		
		BESTWICK, T., "ASOC silicon integrated optics technology," Part of the SPIE Conferences on Photonics Packaging and Integration, SPIE vol. 3631, pp. 182-190 (Jan. 1999).		
		BORSELLA et al., "Structural incorporation of silver insoda-lime glass by the ion-exchange process: a photoluminescence spectroscopy study", <i>Applied Physics A</i> 71, pp. 125-132 (2000).		
✓		BYER et al., "Nonlinear Optics and Solid-state Lasers," <i>IEEE Journal on Selected Topics in Quantum Electronics</i> , Vol. 6, No. 6, pp. 921-929 (Nov. 2000).		✓

Examiner Signature		Date Considered	3/7/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IDS Form PTO/SB 38 Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	Frank C. FONT Derek Dupuis
Sheet	7	of	12	Attorney Docket Number	09140-0025-00000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ^o
DD		CAMPBELL et al., "Titanium dioxide (TiO ₂)-based gate insulators," <i>IBM J. Res. Develop.</i> 43(3), 383-391, (May 1999).	Yes
		CHANG, C.Y. (edited by), "ULSI Technology," The McGraw-Hill Companies, Inc., New York, 1996, Chapter 4, pp. 169-170, 226-231 (1996)..	
		CHEN et al. "Development of Supported Bifunctional Electrocatalysts for Unitized Regenerative Fuel Cells," <i>Journal of the Electrochemical Society</i> , 149(8), A1092-99, (2002).	
		CHOI et al., "Er-Al-codoped silicate planar light waveguide-type amplifier fabricated by radio-frequency sputtering," <i>Optics Letters</i> , vol. 25, No. 4, pp. 263-265 (Feb. 15, 2000).	
		COOKSEY et al. "Predicting Permeability & Transmission Rate for Multilayer Materials," <i>Foodtechnology</i> , Vol. 53, No. 9, pp. 60-63 (September 1999).	
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		DuPont Teijin Films, Mylar 200 SBL 300, Product Information (2000).	
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		FUJII et al, "1.54 mm photoluminescence of Er ³⁺ doped into SiO ₂ films containing Si nanocrystals: Evidence for energy transfer from Si nanocrystals for Er ³⁺ ", <i>Appl. Phys. Lett.</i> , Vol. 71 (9), pp. 1198-1200 (Sept. 1997).	
		GARCIA, C. "Size Dependence of Lifetime and Absorption Cross Section of Si Nanocrystals Embedded in SiO ₂ ," <i>Appl. Phys. Lett.</i> , Vol. 82, No. 10, pp. 1595-7 (March 10, 2003).	
		GOOSSENS et al., "Sensitization of TiO ₂ with p-type semiconductor polymers," Delft Interfaculty Research Center, Delft University of Technology Laboratory of Inorganic Chemistry, The Netherlands (1998).	
		HAN, Hak-Seung et al. "Optical Gain at 1.54 m in Erbium-Doped Silicon Nanocluster Sensitized Waveguide," <i>Appl. Phys. Lett.</i> , Vol. 79, No. 27, pp. 4568-70 (December 31, 2001).	
		HAYAKAWA et al, "Field enhancement effect of small Ag particles on the fluorescence from Eu ³⁺ -doped SiO ₂ glass", <i>Appl. Phys. Lett.</i> , Vol. 74, No 11, pp. 1513-1515 (15 March 1999).	
		HAYAKAWA et al., "Enhanced fluorescence from Eu ³⁺ owing to surface plasma oscillation of silver particles in glass", <i>Journal of Non-Crystalline Solids</i> , Vol. 259, pp. 16-22 (1999).	
✓		HAYFIELD, P.C.S., "Development of a New Material-Monolithic Ti4O7 Ebonix Ceramic," Royal Society Chemistry, (2002).	✓

Examiner Signature	<i>On 2. J</i>	Date Considered	3/7/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US Form PTO SS 35 Substitute for form 1448A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	1C/650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	FRANK S. PONT <i>Doek L. Dupuis</i>
Sheet	8	of	12	Attorney Docket Number	09140-0025-00000

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		Translation ^a
<i>DLD</i>		HEHLEN et al. "Spectroscopic Properties of Er ³⁺ - and Yb ³⁺ -doped Soda-Lime Silicate and Aluminosilicate Glasses," <i>Physical Review B</i> , Vol. 56, No. 15, pp. 9302-9318 (October 15 1997).		<i>Yes</i>
		HEHLEN et al. "Uniform Upconversion in High-Concentration Er ³⁺ -doped Soda Lime Silicate and Aluminosilicate Glasses," <i>Optics Letters</i> , Vol. 22, No. 11, pp. 772-774 (June 1, 1997).		
		HORST et al., "Compact, Tunable Optical Devices in Silicon-Oxynitride Wave Guide Technology," IBM Research Division, 3 pages (1999).		
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		ITO, M. et al., "Large reduction of singlemode-fibre coupling loss in 1.5% delta planar lightwave circuits using spot-size converters," <i>Electronics Letters</i> , 38(2):72-74 (2002).		
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		LADOUCEUR, F. et al., "8.8 Evaluation of Results", <u>Silica-based Buried Channel Waveguides and Devices</u> , Chapman & Hall, London, pp. 98-99 (1996).		
<i>✓</i>		LAMB, William B., "Designing Nonfoil Containing Skins for VIP Applications," DuPont VIA Symposium Presentation, (1999).		<i>✓</i>

Examiner Signature	<i>Or 2. R</i>	Date Considered	<i>3/7/05</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.


US Form PTO SB-33 Substitute for form 1449A-PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	Pradeep Derek L. Dupuis
Sheet	9	of	12	Attorney Docket Number	09140-0025-00000

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ^a	
DW		LAMB, William et al. "Designing Non-Foil Containing Skins for Vacuum Insulation Panel (VIP) Applications," <i>Vuoto</i> , Vol. XXVIII, No. 1-2 - Gennaio-Giugno 1999, pp. 55-58 (1999).	YCS	
		LANGE et al, "High Gain Ultra-Short Length Phosphate glass Erbium-Doped Fiber Amplifier Material", <i>OSA Optical Fiber Communications (OFC)</i> , 3 pages (2002).		
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		MITOMU, O. et al., "Design of a Single-Mode Tapered Waveguide for Low-Loss Chip-to-Fiber Coupling," <i>IEEE Journal of Quantum Electronics</i> , 30(8):1787-1793 (1994).		
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		ONO et al., "Design of a Low-loss Y-branch Optical Waveguide," Fifth Optoelectronic and Communications Conference (OECC 2000) Technical Digest, 2 pages (Jul. 2000).		

Examiner Signature		Date Considered	3/7/05
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IDS Form PTO/SB/00: Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	Robert R. Font Derek L. Dupuis
Sheet	10	of	12	Attorney Docket Number	09140-0025-00000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁶
DLD		PADMINI et al. "Realization of High Tunability Barium Strontium Titanate Thin Films by RF Magnetron Sputtering," College of Engineering, University of California, Santa Barbara (date unknown).	Yes
		PAN et al., "Planar Er ³⁺ -doped aluminosilicate waveguide amplifier with more than 10 dB gain across C-band," Optical Society of America, 3 pages (2000).	
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Examiner Signature			Date Considered
			3/7/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US Form PTO SB 38: Substitute for form 1449A-PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10:650,461
				Filing Date	August 27, 2003
				First Named Inventor	DAWES.
				Art Unit	2883
				Examiner Name	Frank G. Font Derek L. Dupuis
Sheet	11	of	12	Attorney Docket Number	09140-0025-00000


NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ²
DLD		TERVONEN, A., "Challenges and opportunities for integrated optics in optical networks," Part of the SPIE Conference in Integrated Optics Devices III, SPIE vol. 3620, pp. 2-11 (Jan. 1999).	Yes
		TING et al., "Study of planarized sputter-deposited SiO ₂ ," <i>J. Vac. Sci. Technol.</i> , 15(3) pp. 1105-1112 (May/Jun. 1978).	
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		WILKES, Kenneth T. "Gas Permeation Through Vacuum Barrier Films and its Effect on VIP Thermal Performance," Vacuum Insulation Panel Symp., Baltimore, Maryland (May 3 1999)	
		YANAGAWA, H. et al., "Index-and-Dimensional Taper and Its Application to Photonic Devices," <i>Journal of Lightwave Technology</i> , 10(5):587-591 (1992).	
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DLD		Office Action issued on November 28, 2001 in U.S. Patent No. 6,506,289 (Attorney Docket No. 09140-0002-01).	
DLD		Response to Office Action filed on February 20, 2002 in U.S. Patent No. 6,506,289 (Attorney Docket No. 09140-0002-01).	
DLD		Office Action issued on April 17, 2002 in U.S. Patent No. 6,506,289 (Attorney Docket No. 09140-0002-01).	
DLD		Response to Office Action filed on July 17, 2002 in U.S. Patent No. 6,506,289 (Attorney Docket No. 09140-0002-01).	
DLD		Office Action issued on May 2, 2002 in U.S. Patent No. 6,533,907 (Attorney Docket No. 09140-0004-00).	
DLD		Response to Office Action filed on September 3, 2002 in U.S. Patent No. 6,533,907 (Attorney Docket No. 09140-0004-00).	
DLD		Office Action issued on February 12, 2004 in U.S. Serial No. 09/903,081 (Attorney Docket No. 09140-0014-00).	✓

Examiner Signature		Date Considered	3/7/05
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US Form PTO SB/36: Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/650,461		
		Filing Date	August 27, 2003		
		First Named Inventor	DAWES.		
		Art Unit	2883		
		Examiner Name	Frank S. Fong Derek Dupuis		
Sheet	12	of	12	Attorney Docket Number	09140-0025-00000

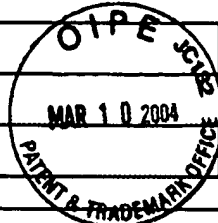
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ²
DLD		Response to Office Action filed on August 10, 2004 in U.S. Serial No. 09/903,081 (Attorney Docket No. 09140-0014-00).	Yes
		Office Action issued on September 10, 2004 in U.S. Serial No. 09/903,081 (Attorney Docket No. 09140-0014-00).	
		Office Action issued on May 14, 2003 in U.S. Serial No. 10/101,492 (Attorney Docket No. 09140-0015-00).	
		Response to Office Action filed on August 14, 2003 in U.S. Serial No. 10/101,492 (Attorney Docket No. 09140-0015-00).	
		Office Action issued on September 3, 2003 in U.S. Serial No. 10/101,492 (Attorney Docket No. 09140-0015-00).	
		Response to Office Action filed on March 3, 2004 in U.S. Serial No. 10/101,492 (Attorney Docket No. 09140-0015-00).	
		Office Action issued on February 24, 2004 in U.S. Serial No. 10/101,863 (Attorney Docket No. 09140-0016-00).	
		Response to Office Action filed on July 23, 2004 in U.S. Serial No. 10/101,863 (Attorney Docket No. 09140-0016-00).	
		Office Action issued on October 6, 2004 in U.S. Serial No. 10/101,863 (Attorney Docket No. 09140-0016-00).	
		Office Action issued on October 22, 2003 in U.S. Serial No. 10/101,341 (Attorney Docket No. 09140-0017-00).	
		Response to Office Action filed on February 23, 2004 in U.S. Serial No. 10/101,341 (Attorney Docket No. 09140-0017-00).	
		Office Action issued on June 10, 2004 in U.S. Serial No. 10/101,341 (Attorney Docket No. 09140-0017-00).	
		Response to Office Action filed on December 08, 2004 in U.S. Serial No. 10/101,341 (Attorney Docket No. 09140-0017-00).	
		Office Action issued on May 4, 2004 in U.S. Serial No. 10/101,493 (Attorney Docket No. 09140-0021-00).	
		International Search Report issued on November 21, 2003 in PCT/US03/24809 (Attorney Docket No. 09140-0025-00).	
		International Search Report issued on October 11, 2004 in PCT/US2004/005531 (Attorney Docket No. 09140-0030-00).	
		Written Opinion issued on October 11, 2004 in PCT/US2004/005531 (Attorney Docket No. 09140-0030-00)	

Examiner Signature		Date Considered	3/7/05
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INFORMATION DISCLOSURE CITATION

Atty. Docket No.	9140.0025-00	Appln. No.	10/650,461
Applicant	David DAWES		
Filing Date	August 27, 2003	Group:	2874 2883



U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
DLD	5,689,522	11/18/1997	Beach	372	75	
DLD	6,052,397	04/18/2000	Jeon et al.	372	46	
DLD	2003/0063883	04/03/2003	Demaray et al.	385	129	

FOREIGN PATENT DOCUMENTS

	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
DLD	WO 12/12932 A2	02/14/2002	WIPO			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DLD	Jonsson, L.B. et al., "Frequency response in pulsed DC reactive sputtering processes"; Thin Solid Films, Vol. 356, No. 1, April 2000 (pp. 43-48)
DLD	Beach, R.J., "Theory and optimizatio of lens ducts", Applied OPTics, April 20, 1996, Vol. 35, No. 12, (pp. 2005-2015)

Examiner <i>Dev 2f</i>	Date Considered <i>3/7/05</i>
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce